

PAT-NO: JP362243668A

DOCUMENT-IDENTIFIER: JP 62243668 A

TITLE: ANTISOTROPIC ELECTRICALLY CONDUCTIVE ADHESIVE

PUBN-DATE: October 24, 1987

INVENTOR-INFORMATION:

NAME

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APPL-NO: JP61087352

APPL-DATE: April 16, 1986

INT-CL (IPC): C09J003/00

US-CL-CURRENT: 428/457, 428/458 , 428/461

ABSTRACT:

PURPOSE: The titled adhesive, obtained by dispersing an electrically

conductive filler having films on the surface of an elastomer in a high polymer material having heat bonding properties and used for electrically connecting mutually circuit boards, circuit parts, etc.

CONSTITUTION: An adhesive obtained by dispersing an electrically conductive filler prepared by forming films of a metal or electrically conductive metal oxide, e.g. gold, silver, copper, indium oxide, tin oxide, etc., on the surfaces of an elastomer, preferably organic high polymer, e.g. plastic powder, rubber powder, etc., in a high polymer having heat bonding properties, e.g. polyester resin, vinyl resin, etc., liquid high polymer or a solution obtained by dissolving a high polymer in a solvent. The electrically conductive filler has preferably  $0.01 \sim 1,000 \mu\text{m}$  particle diameter.

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DERWENT-ACC-NO: 1987-338599

DERWENT-WEEK: 198748

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TITLE: Anisotropic electroconductive adhesive for bonding tape  
- comprises electroconductive filler having metal film on  
elastic material in heat adhesive polymer material

PATENT-ASSIGNEE: MATSUSHITA ELEC IND CO LTD[MATU] , THREE BOND  
CO LTD[TOKT]

PRIORITY-DATA: 1986JP-0087352 (April 16, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 62243668 A	October 24, 1987	N/A	005	N/A
JP 95002938 B2	January 18, 1995	N/A	004	C09J 009/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 62243668A	N/A	1986JP-0087352	April 16, 1986
JP 95002938B2	N/A	1986JP-0087352	April 16, 1986
JP 95002938B2	Based on	JP 62243668	N/A

INT-CL (IPC): C09J003/00, C09J009/02

ABSTRACTED-PUB-NO: JP 62243668A

BASIC-ABSTRACT:

Adhesive comprises, in a heat-adhesive polymer material, an electroconductive  
filler, having a film of metal or electroconductive metal oxide formed on an

elastic material.

Pref. the elastic material is an organic polymer, plastics, or rubber powder. The elastic material is Nylon, PP, teflon, polyethylene, PU rubber, etc. The coating of the metal or metal oxide on the elastic material is carried out by wet electroplating, vacuum evaporation, sputtering, etc. The particle size of the filler is 0.01-1000 micron. The electroconductive filler is e.g. crosslinked PS powder plated with Ni having an average dia. of 7-9 micron. The film thickness is 1000-2000 Angstroms. The specific gravity is 1.7-2.1. The intrinsic vol. is  $1 - 7 \times 10^2$  ohm-cm. The ratio of filler to polymer is (1-70)/100.

USE/ADVANTAGE - Used for thermocompression bonding tape or film forming by screen printing. The prod. gives stable electrical contact. The filler does not ppte. because the specific gravity of filler and binder is similar.

TITLE-TERMS: ANISOTROPE ELECTROCONDUCTING ADHESIVE BOND TAPE  
COMPRISE

ELECTROCONDUCTING FILL METAL FILM ELASTIC MATERIAL HEAT  
ADHESIVE

POLYMER MATERIAL

DERWENT-CLASS: A81 G03 L03

CPI-CODES: A08-M09A; A08-R01; A09-A03; A12-A05; G03-B02; L03-A02D;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0009 0210 0222 0123 0231 0239 0248 0304 0947 1283 1294 2020  
2218

2219 2220 2370 2481 2482 2498 2499 2541 2551 2572 2651 2684 2816

Multipunch Codes: 014 032 04- 041 046 047 050 055 056 062 064 07- 087 141  
15-

150 18& 231 308 310 311 36& 385 393 466 471 472 473 506 509 532 536 575  
592 593

609 654 668 688 721

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-144688